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DATE MAILED: 08/23/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,081	03/18/2004	Yasuyoshi Kato	. 8215.138	4171
7590 08/23/2005			EXAMINER	
LINIAK, BERENATO & WHITE			NGUYEN, HOANG M	
Suite 240 6550 Rock Spring Drive			ART UNIT	PAPER NUMBER
Bethesda, MD 20817			3748	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/803,081	KATO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoang M. Nguyen	3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	,	•				
1)⊠ Responsive to communication(s) filed on 20 Ju	<u>ıly 2005</u> .					
2a)⊠ This action is FINAL . 2b)□ This	This action is FINAL . 2b) This action is non-final.					
•	- ' '					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 3 is/are rejected. 7) Claim(s) 2, 4 is/are objected to. 8) Claim(s) are subject to restriction and/o 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the bedrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Applicant's amendment dated July 20, 2005, has been fully considered.

Applicant argued Yamanishi discloses a refrigerator operated as a heat pump, but not exactly a heat pump. Please note it does not matter if a real heat pump is in the system of Yamanishi. The fact that Yamanishi teaches a device operated as a heat pump meaning the heat pump function is needed in Yamanishi.

Applicant argued Wilkinson et al does not disclose the heat recovery concept of a turbine. Please note this is a 103 rejection, Applicant should not attack the references initially while the 103 rejection is based on two references. Wilkinson does not need to show that heat recovery concept because that is known and shown in the primary reference of Yamanishi.

Applicant argued the applied references do not teach carbon dioxide as a refrigerant, and it would not have been obvious to do so. The Examiner agrees and the rejections to claims 2 and 4 have been withdrawn. Claims 2 and 4 are now objected to on the merit.

This Office Action has been made final.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, are rejected under 35 U.S.C. § 103(a) as being unpatentable over JP 05-296009 (Yamanishi et al) in view of U.S. 4333515 (Wilkinson et al). Yamanishi et al discloses an exhaust heat recovery system comprising a steam turbine 2, a condenser 4 acting as a heat exchanger as claimed, an evaporator 5c for a refrigerator 5 comprising a heat pump. Yamanishi et al does not disclose the compression heat pump type being used. Wilkinson et al is relied upon to disclose it's well known to use compression heat pump in a waste heat recovery system of a steam turbine plant (note column 1). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to use compression heat pump in the system of Yamanishi et al as taught by Wilkinson et al for the purpose of more effectively generating electricity.

Claims 2, 4, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion, can be reached on (571)-272-4859. The fax phone number for the Examiner is (703) 872-9306 for regular communication, and (703) 872-9303 for after final communication.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-3700.

HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 8/20/05